

Data Bank No., Name	Comparison of Endometriosis versus Normal (Secr. Phase)	Comparison of Endometriosis versus Normal (Prol. Phase)	Comparison of Secr. versus Prol. Phase (Endometrium)
X02761, fibronectin (FN precursor)	down (0 up - 16 down)	down (4 up -12 down)	up (18 up - 1 down)
S37730, insulin-like growth factor binding protein-2	down (1-15)	nc (13-13)	up (17-2)
U40271, Human transmembrane receptor precursor (PTK7)	down (0-14)	nc (6-2)	up (9-1)
M21574, platelet-derived growth factor receptor alpha (PDGFRA)	down (0-13)	nc (8-10)	up (17-0)
L22548, collagen type XVIII alpha 1 (COL18A1)	down (0-13)	down (0-8)	up (17-0)
M80482, subtilisin-like protein (PACE4)	down (1-13)	down (4-13)	up (22-2)
Z26653, laminin M chain (merosin)	down (1-13)	nc (9-10)	up (17-1)
M36860, U77846, Elastin	down (0-12)	nc (0-0)	up (25-0)
X05610, type IV collagen alpha -2 chain	down (0-12)	nc (3-3)	up (11-0)
X67325, p27 Interferon alpha-inducible gene	down (1-12)	nc (9-10)	up (10-2)

Figure 1a



Data Bank No., Name	Comparison of Endometriosis versus Normal (Secr. Phase)	Comparison of Endometriosis versus Normal (Prol. Phase)	Comparison of Secr. versus Prol. Phase (Endometrium)
D42073, reticulocalbin	down (0-11)	nc (8-5)	up (11-2)
U07919, aldehyde dehydrogenase 6	down (1-11)	nc (13-9)	up (22-0)
U81607, gravin	down (1-11)	nc (8-7)	up (18-1)
M30269, nidogen	down (0-10)	nc (8-14)	up (15-3)
D42108, phospholipase C Epsilon	down (1-10)	nc (12-14)	up (25-0)

Figure 1b

Figure 2a

Seq.IDNO	Name	Protein Sequence
1	Fibronectin	<p>MLRPGPGLL LLAQCCLGTA VPSTGASKSK RQAQMVQPQ SPVAVSQSKP GCYDNGKHYQ INQWERTYL</p> <p>GNALVCTCYG GSRGFNCESK PEAETCFDK YTGNTYRVGD TYERPKDSMI WDCTCIGAGR GRISCTIANR</p> <p>CHEGGQSYKI GDTWRRPHET GGYLECVCL GNGKGEWTK PIAKCFDHA AGTSYVVGET WEKPYQGMMM</p> <p>VDCTCLGEGS GRITCTSRNR CNDQDTRTSY RIGDTSKKD NRGILLQCIC TGNGRGEWKC ERHTSVQTTT</p> <p>SGSGPFTDVR AAVYQPQPHP QPPPYGHCVT DSGVVYSVGM QMLKTQGNKQ MLCTCLGNV SCQETAVTQT</p> <p>YGGNSNGEPC VLPFTYNGRT FYSCTEGRQ DGHLCSTTS NYEQDQKYSF CTDHTVLVQT QGGNSNGALC</p> <p>HFPLYNNHN YTDCTSEGR DNKWCCTTQ NYDADQKFGF CPMMAHEEIC TTNEGVMYRI GDQWDKQHDM</p> <p>GMMRCTCVG NGRGEWTCIA YSQLRDOCIV DDITYNVNDT FHKRHEEGHM LNCTCFGQGR GRWKCDPVDQ</p> <p>CQDSETGTFY QIGDSWEKYV HGVRYQCYCY GRGIGEWHCQ PLQTYPSSSG PVEVFITETP SQPNSHPIQW</p> <p>NAPQSHISK YILWRPKNS VGRWKEATIP GHLNSYTIKG LKPGVVYEGQ LISIQYGHQ EVTRFDFTTT</p> <p>STSTPVTSTNT VTGETTFFSP LVATSESVTE ITASSFVSW VSASDTVSGF RVEYELSEEG DEPYLDLPS</p> <p>TATSVNIPDL LPRKYIVNV YQISEDEGEQS LILSTSQTTA PDAPPDPTVD QVDDTSIVVR WSRPQAPITG</p> <p>YRIVYSPSVE GSSTELNLP TANSVTLSDL QPGVQYNITI YAVEENQEST PVVIQETTG TPRSDTVPS</p> <p>RDLQFVEVTD VKVTIMWTPP ESAVTGYRVD VIPVNLPEH GQRLPISRNT FAEVTGLSPG VTYYFKVFAV</p> <p>SHGRESKPLT AQOTTKLDAP TNLQFVNETD STVLVRWTPP RAQITGYRLT VGLTRRGQPR QYNVGPSVSK</p> <p>YPLRLQPAS EYTVSLVAIK GNQESPKATG VFTTLQPGSS IPPYNTTEVTE TTIVITWTPA PRIGFKLGVR</p> <p>PSQGGEAPRE VTSDSGSIVV SGLTPGVEV YTIQVLRDQ ERDAPIVNKV VTPLSPPTNL HLEANPDTGV</p> <p>LTVSWERSTT PDITGYRITT TPTNGQOGNS LEEVHADQS SCTFDNLSPG LEYNVSVTV KDDKESVPIS</p> <p>DTIIPAVPPP TDLRFTNIGP DTMRVTWAPP PSIDLTNFLV RYSPVKNEED VAELSISPSD NAVVLTNLLP</p> <p>GTEYVVS VYEQHESTPL RGRQKTGLDS PTGIDFSDIT ANSFTVHWIA PRATITGYRI RHHPEHFSGR</p> <p>PREDRVPHSR NSITLTNLTP GTEYVVSIVA LNGREESPLL IGQSTVSDV PRDLEVVAAT PTSLLISWDA</p>

Figure 2b

Seq.IDNO	Name	Protein Sequence
		PAVTVYYRI TYGETGNSP VQETVPGSK STATISGLKP GVDYTTITVYA VTGRGDSPAS SKPISINVRT EIDKPSOMQV TDVQDNSISV KWLPS SSPVT GYRVTTTPKN GPGPTTKTKTA GPDQTEMTIE GLQPTVEYVV SVYAQNPSGE SQPLVQTAVT NIDRPKGLAF TDVDVDSIKI AWESPQGQVS RYRVTYSSPE DGIHELFPAP DGEEDTAELO GLRPGSEYTV SVVALHDDME SQPLIGTQST AIPAPTDLKF TQVTPTSLSA QWTPPNVQLT GYRVRVTPKE KTGPMKEINL APDSSSVVVS GLMVATKYEV SVYALKDRTL SRPAQGVVVT LENVSPRRRA RVTDATETTI TISWRKTET ITGFQVDAVP ANGQTPIQRT IKPDVRSYTI TGLQPGTDYK IYLYTLNDNA RSSPWVIDAS TAIDAPSNLR FLATTPNSLL VSWQPPRARI TGYIIKYEKP GSPPREVVPR PRPGVTEATI TGLEPGTEYT IYVIALKNNQ KSEPLIGRKK TDELPQLVTL PHPNLHGPEI LDVPSTVQKT PFVTHPGYDT GNCIQLPGTS GQQPSVGQQM IFEEHGFRT TPPTTATPIR HRPRPYPPNV GEEIQIGHIP REDVDYHLYP HGPGLNPNAS TQOEALSQTT ISWAPFQDTS EYIISCHPVG TDEEPLQFRV PGTSTSATLT GLTRGATYNI IVEALKDQOR HKVREEVTV GNSVNEGLNQ PTDDSCFDPY TVSHYAVGDE WERMSESGFK LLCQCLGFGS GHFRCDSSRW CHDNGVNYKI GEKWDROGEN GQMMSCTCIG NGKGEFKCDP HEATCYDDGK TYHVGEQWQK EYLGAICSCT CFGGQRGWRC DNCRRPGGEP SPEGTTGQSY NQYSQRYHOR TNTNVNCPIC CFMPLDVQAD REDSRE
2	Insulin-like growth factor binding protein-2	MLPRVGC PAL PLPPPPPLPL LPLLLLLLGA SGGGGGARAE VLFRCPPCTP ERLAACGPPP VAPPAVAAV AGGARMPCAE LVREPGCGCC SVCARLEGEA CGVYTPRCGQ GLRCYPHPGS ELPLQALVMG EGTCEKRRDA EYGASPEQVA DNGDDHSEGG LVENHVDSTM NMLGGGGSAG RKPLKSGMKE LAVFREKYTE QHRQMKGKGGK HHLGLEEPKK LRPPPARTPC QQELDQVLER ISTMRLPDER GPLEHLYSLH IPNCDKHGGLY NLKQCKMSLN GQGEWCVN PNTGKLIQGA PTIRGDPECH LEYNEQQEAR GVHTQRMQ

Figure 2c

Seq.IDNO	Name	Protein Sequence
3	Transmembrane receptor PTK7	MGAARGSPAR PRRLLLSVL LLPLLGGTQT AIVFIKQPSS QDALQRRAL LRCEVEAPGP VHVVWLLDGA PVQDTERRFA QGSSLSFAAV DPLQDSGTFQ CVARDDVTGE EARSANASFN IKWIEAGPVV LKHPASEAEI QPQTQVKLRC HIDGHPRTY QWFRDGTPLS DGQSNHTVSS KERNLTLRPA GPEHSGLYSC CAHSAFSQAC SSQFTLSIA DESFARVWLA PQDVVVVARYE EAMFHCQFSA QPPPSLQWLF EDETPITNRS RPPHLRRATV FANGSLLLTQ VRPRNAGIYR CIGQGORGPP IILEATLHLA EIEDMPLFEP RVFTAGSEER VTCLPPKGLP EPSVWWEHAG VRLPTHGRVY QKGHELVLAN IAESDAGVYT CHAANLAGOR RQDVNITVAT VPSWLKKPQD SOLEEGKPGY LDCLTQATPK PTVVWYRNQM LISEDSRFEV FKNGTLRINS VEVYDGTWYR CMSSTPAGSI EAQAVLQVLE KLKFTPPPQP QQCMGFDKEA TVPCSATGRE KPTIKWERAD GSSLPWVTD NAGTLHFARV TRDDAGNYTC IASNGPQGQI RAHVQLTVAV FITFKVEPER TTVYQGHIAL LQCEAQGDPK PLIQWKGKDR ILDPTKLGPR MHIFQNSLV IHDVAPEDSG RYTCTIAGNSC NIKHTEAPLY VVDKPVPEES EGPGSPPPYK MIQTIGLSVG AAVAYIIAVL GLMFYCKKRC KAKRLQKQE GEEPEMECLN GGPLQNGQPS AEIQEEVALT SLGSGPAATN KRHSTSDKMH FPRSSLQPIT TLGKSEFGEV FLAKAQGLEE GVAETLVLVK SLQSKDEQQQ LDFRRELEMF GKLNHANVVR LLGLCREAEP HYMVLEYVDL EDLKQFLRIS KSKDEKLKSQ PLSTKQKVAL CTQVALGMEH LSNRFRVHKD LAARNCLVSA QRQVKVSALG LSKDVYNSEY YHFRQAWVAL RMMSPEAILE GDFSTKSDVW ASGVLMWEVF THGEMPHGGQ ADDEVVLADLQ AGKARLPQPE GCPSKLYRLM QRCWALSPKD RPSFSEIASA LGDSTVDSPK
4	Platelet-derived growth factor receptor alpha	MGTSHPAFLV LGCLLTGLSL ILCQLSLPSI LPNENEKVVO LNSSFSLRCF GESEVSWQYP MSEEESDVE IRNEENNSGL FVTVLEVSSA SAAHTGLYTC YNHTQTEEN ELEGRHIYIY VPDPDVAFVP LGMTDYLIVV EDDSAILPC RTTDPETPVT LHNSEGVWPA SYDSRQGFNG TTFVGPYICE ATVKGKKFQT IPENVYALKA

Figure 2d

Seq.IDNO	Name	Protein Sequence
		TSELDLEMEA LKTVYKSGET IVVTCVAFNN EVVDLQWTYP GEVKGKGITM LEEIKVPSIK LVYTLTVPEA TVKDSGDYEC AARQATREVK EMKKTISVH EKGFIKPT FSQLEAVNLH EVKHFVVEVR AYPPPRISWL KNNLTLIENL TEITTDVEKI QEIRYRSKLK LIRAKEEDSG HYTTVAQNEH AVKSYTFELL TQVPSSILD VDDHGGSTGG QTVRCTAEGT PLPDIEWMIC KDIIKCNNET SWTILANNVS NIITEIHSRD RSTVEGRVTF AKVEETIAVR CLAKNLLGAE NRELKLVAPT LRSELTVAAL VLVLVIVII SLIVLVVIWK QKPRYEIRWR VIESISPDGH EYIYVDPMQL PYDSRWEFPR DGLVLGRVLG SGARFKVVEG TAYGLSRSQP VMKVAVKMLK PTARSSEKQA LMSELKIMTH LGPHLNIVNL LGACTKSGPI YIITEYCFYG DLVNYLHKNR DSFLSHHPEK PKKELDIFGL NPADESTRSY VILSFENNGD YMDMKQADTT QYVPMLEKE VSKYSDIORS LYDRPASYYK KSMLDSEVKN LLSDDNSEGL TLDDLLSFTY QVARGMEFLA SKNCVHRDLA ARNVLLAQGK IVKICDFGLA RDIHDSNYV SKGSTFLPVK WMAPEIFDN LYTTLSDVMS YGILLWEIFS LGGTPYPGMM VDSTFYNKIK SGYRMAKPDH ATSEVYEIMV KCWNSPEKR PSFYHLSEIV ENLLPGQYKK SYEKIHLDFL KSDHPAVARMVDSNDAYIG VTYKNEEDKL KDWEGLDEQ RLSADSGYII PLPDIDPVPE EEDLGKNRH SSQTSESAI ETGSSSSTFI KREDETIEDI DMDDIGIDS SDLVEDSFL
5	Collagen XVIII alpha 1 type	GEVGADGIPG FPGLPGREGI AGPQGPKGDR GSRGEKGDGP KDGLGQPGLP GPRGPPGPVV YVSEQDGSVL SVPGPGEGRG FAGFPGPAGP KGNLGSKGEL GSPGPKGEKG EPGSIFSPDG GALGPAQKGA KGEPCFRGPP GLYGRPGYKG EIGFPGRPGR PGMNGLKGEK GEPGDASLGF GMRGMPGPPG PPGPPGPPGT PVYDSNVFAE SSRPGPPGLP GNQGP PGPKG PKGEVGP GPQFPFDFLQ KEAEMKGEK DRGDAGQKGE RGEPCGGGFF GSSLPGAPGA PGPRGYPGIP GPKGESIRGQ PGPPPGQGP GIGYEGRQGP PGPPGPPGPP SFPGPHRQTI SVPGPPGPPG PPGPPGTGMA SSGQVRLWAT RQAMLGQVHE VPEGLIFVA EQEELYVRVQ NGFRKVQLEA RTPLPRGTDN EVAALQPPVV QLHDSNPYPR REHPHTARP WRADDILASP PGLPEPQYPY GGPHHSSVYH CGPARPTSPP AHSRDRFQPV LHLVALNSPL SSGMRGIRGA DFQCFQARA VGLAGTFRF LSSRLQDLYS

Figure 2e

Seq.IDNO	Name	Protein sequence
6	Subtilisin-like protein (PACE4)	<p>IVRRADRAAV PIVNLKDELL FPSWEALFSG SEGPLKPGAR IFSFDGKDVLR RHPTWPQKSV WHGSDPNRR</p> <p>LTESYCETWR TEAPSATGQA SLLGGRLLG QSAASCHHAY IVLCIENSFM TASK</p> <p>MPPRAPAPG PRPPPRAAAA TDTAAGAGGA GGAGGAGGPG FRPLAPRPWR WLLLLALPAA CSAPPPRPVY</p> <p>TNHWAVQVLG GPAEADRVAA AHGYLNLGQI GNLEDYYHFY HSKTFKRSTL SSRGPHFTFLR MDPQVKWLQQ</p> <p>QEVKRRVKRQ VRSDPQALYF NDPIWSNMWY LHCGDKNSRC RSEMNVAQAW KRGYTGKNVV VTILDDGIER</p> <p>NHPDLAPNYD SYASYDVNGN DYDPSPRYDA SNENKHGTRC AGEVAASANN SYCIVGIAYN AKIGGIRMLD</p> <p>GDVTDVVEAK SLGIRPNYID IYSASWGPDD DGKTVDPGR LAKQAFEYGI KKGROGLGSI FVWASGNNGR</p> <p>EGDYCSCDGY TNSIYITISVS SATENGYKPV YLEECASLTA TTYSSGAFYE RKIVTTDLRQ RCTDGHGTGS</p> <p>VSAPMVAGII ALALEANSQ L TWRDVQHLLV KTSRPAHLKA SDWKVNGAGH KVSHFYGFGL VDAEALVVEA</p> <p>KKWTAVPSQH MCVAASDKRP RSIPLVQVLR TTALTSACAE HSDQVVVYLE HVVVRTSISH PRRGDLQIYL</p> <p>VSPSGTKSQL LAKRLDLN EGFTNWEFMT VHCWGEKAEQ QWTLFIQDLP SQVRNPEKQG KLKWSLILY</p> <p>GTAEHPIYHTF SAHQSRSRML ELSAPELEPP KAALSPSQVE VPEDDEEYTA QSTPGSANIL QTSVCHPECG</p> <p>DKGCDGPNAD QCLNCVHFSL GSVKTSRKC V SVCPLGYFGD TAARRCRRCH KGCECTSSRA ATQCLSCRRG</p> <p>FYHHQEMNTC VTLCFAGFYA DESQKNCLKC HPSCCKCVD E PEKCTVCKEG FSLARGSCIP DCEPGTYFDS</p> <p>ELIRCGECHH TCGTCVGPGR EECIHCAKNF HFHDWKCVPA CGEGFYPEEM PGLPHKVCRR CDENCLSCAG</p> <p>SSRNC SRCKT GFTQLGTSCI TNHTCSNADE TFCMVKS NR LCERKLFIQF CCRTCLLAG</p>
7	Laminin M chain (Merosin)	<p>MPGAAGVLLL LLLSGLGGV QAQRPOQORQ SOAHQQRGLF PAVNLASNA LITTNATCGE KGPEMYCKLV</p> <p>EHVPGQPVN PQCRICNQNS SNPNQRHPIT NAIDGKNTW QSPSIKNGIE YHYVTITLDL QQVFQIAYVI</p> <p>VKAANSRPG NWILERSLDD VEYKPMQYHA VTDTECLTLY NIYPRTGPPS YAKDDEVICT SFYSKIHPL</p> <p>NGEIHISLIN GRPSADDPSP ELLEFTSARY IRLRFQIRI LNADLMMFAH KDPREIDPIV TRRYYSVKD</p> <p>ISVGGMCICY GHARACPLDP ATNKSRCCE HNTCGDSCDQ CCPGHQKPV RAGTFLTKTE CEACNCHGKA</p>

Figure 2f

Seq.IDNO	Name	Protein Sequence
		<p>           EECYYDENVA RRNLNLNIRG KYIGGGVCIN CTQNTAGINC ETCTDGFRRP KGVSPNYPRP CQCHCDPIG            SLNEVCVKDE KHARRGLAPG SCHCKTGFGG VSCDRRCARGY TGYPDCKACN CSGLGSKNED PCFGPCICKE            NVEGGDCSRC KSGFFNLQED NWKGCDECFC SGVSNRCQSS YWTYKIQDM SGWYLTDLPG RIRVAPQQDD            LDSPQQISIS NAEARQALPH SYWWSAPAPY LGNKLPAVGG QLTFITISYDL EEEEEETERV LQLMIILEGN            DLSISTAQDE VYLHPSEHT NVLLKKEESF TIHGTHFPVR RKEFMTVLAN LKRVLLQITY SFGMDAIFRL            SSVNLESAYS YPTDGSIAAA VEVQCQPPGY TGSSCESCW PRRRVNGTIF GGICEPCQCF GHAESECDVDT            GECLNCKDHT GGPYCDKCLP GFYGEPTKGT SEDCQPCACP LNIPSNNEFP TCHLDRSLGL ICDGCPVGYT            GPRCERCAEG YFGQPSVPGG SCQPCQCNDN LDFSIPGSCD SLGSGCLICK PGTTRYCEL CADGYFGDAV            DAKNCQPCRC NAGGSFSEVC HSQTGQCECR ANVQGORCDK CKAGTFGLQS ARGCVPCNCN SFGSKSFDCE            ESGQCWCQPG VTGKKCDRCA HGYFNQEGG CTACECSHLG NNCDPKTGRC ICPNTIGEK CSKCAPNTWG            HSITTGCKAC NCSTVGSIDF QCNVNTGQCN CHPKFSGAKC TECSRHWNY PRCNLCDCLF PGTDATTCDG            ETKKCSQSDQ TGQCTCKVNV EGIHCDRCRP GKFGLDKAPN LGSSSCYCFG TTTQCSEAKG LIRTWVTLKA            EQTILPLVDE ALQHTTTKGI VFQHPDIVAH MDLMREDLHL EPFYWKLPEQ FEGKKLMAYG GKLYAIYFE            AREETGFSTY NPQVIIRGGT PTHARIIVRH MAAPLIGQLT RHEIEMTEKE WKYYGDDPRV HRTVTREDFL            DILYDIHYIL IKATYGNFMR QSRISEISME VAEQGRGTTM TPPADLIEKC DCPGLGYSGLS CEACLPGFYR            LRSQPGGRTG PPTLGTVCPC QCNGHSSLCD PETSICQNCQ HHTAGDFCER CALGYYGIVK GLPNDCCQCA            CPLISSNNF SPSCVAEGLD DYRCTACPRG YEGQCERCA PGYTGSPGNP GGSCQCECD PYGSLPVPCD            PVTGFCTCRP GATGRKCDGC KHWHAREGWE CVFCGDECTG LLLGLDLARLE QMVMISINLTG PLPAPYKMLY            GLENMTQELK HLLSPQRAPE RLIQLAEGNL NTLVTEMNEL LTRATKVTAD GEQTQDAER TNTRAKSLGE            FIKELARDAE AVNEKAIKLN ETLGTRDEAF ERNLEGLQKE IDQMIKELRR KNLETQKEIA EDELVAEAL            LKKVKLFGF SRGENEEMEK DLREKLADYK NKVDDAWDLL REATDKIREA NRLFAVNQKN MTALEKKKEA            VESGKRQIEN TLKEGNDILD EANRLADEIN SIIDYVEDIQ TKLPPMSEEL NDKIDDLSE ICKRKLAEKV         </p>



Figure 2g

Seq.IDNO	Name	Protein Sequence
		SQAESHAAQL NDSSAVLDGI LDEAKNISFN ATAAFKAYSN IKDYIDEAEK VAKEAKOLAH EATKLATGPR GLLKEDAKG LQKSFRIILNE AKKLANDVKE NEDHLNGLKT RIENADARNG DLLRTLNDTL GKLSAIPNDT AAKLQAVKDK ARQANDTAKD VLAQITELHQ NLDGLKKNYN KLAHSVAKTN AVVKDPSKNK I IADADATVK NLEQEAADRLI DKLKPIKELE DNLKKNISEI KELINQARKQ ANSIKVSUSS GGDCIRTYKP EIKKGSYNNI VNVKTAIVAD NLLFYLGSAK FIDFLAIEMR KGKVSFLWDV GSGVGRVEYP DLTIDDSYWY RIVASRTGRN GTISVRALDG PKASIVPSTH HSTSPPGYTI LDVDANAMLF VGGLTGKLLK AD AVRVIITFT GCMGETYFDN KPIGLWNFRE KEGDCKGCTV SPQVEDSEGT ATRDLRDFMS VELTDGHIKV SYDLGSGMAS VVSNQNHNDG KWKSFTLSRI QKQANISIVD IDTNQENIA TSSSGNNFGL DLKADDKIYF GGLPTLRNLS MKARPEVNLK KYSGCLKDIE ISRTPYNILS SPDYVGVTKG CSLENVYTVS FPKPGFVELS PVPIDVGTEI NLSFSTKNES GIILLGSGGT PAPRRKRRO TGQAYYVILL NRGRLVHLS TGA RTMRKIV IRPEPNLFHD GREHSVHVER TRGIFTVQVD ENRRYMQNLT VEQPIEVKKL FVGGAPPEFO PSPLRNIPPF EGCINNLVIN SVPMDFARPV SFKNADIGRC AHQKLREDED GAAPAEIVIQ PEPVPTPAFP TPTPVILTHGP CAAESEPALI IGSKQFGLSR NSHIAIAFDD TKVKNRLTIE LEVRTEAESG LLFYMAAINH ADFATVQLRN GLPYFSYDLG SGDTHTMIPT KINDGQWHKI KIMRSKQEGI LYVDGASNRT ISPKKADILD VVGMLYVGGI PINYTTTRRIG PVTYSIDGCV RNLHMAEAPA DLEQPTSSFH VGTCFANAQR GTYFDGTGFA KAVGGFKVGL DLLVEFEFAT TTTTGVLGII SSQKMDGMI EMIDEKLMFH VDNAGRFTA VYDAGVPGHL CDGQWHKVTA NKIKHRIELT VDGNOVEAQS PNPASTSADT NDPVFVGGFP DDLKQFGLTT SIPFRGCIRS LKLTGKTASH WRLILPRPWN  MAGLTAAAPR PGVLLLLLSI LHPSRPGGVP GAIPGGVPGG VFYFGAGLGA LGGGALGPGG KPLKPVPGGL AGAGLGAGLG APPAVTFPGA LVPGGVADAA AAYKAAKAGA GLGGVPGVGG LGVSAGAVVP QPGAGVKPGK VPGVGLPGVY PGGVLPGARF PGVGLPGVVP TGAGVKPKAP GVGGAFAGIP GVPGFGGPQP GVPLGYPIKA PKLPGGYGLP YTTGKLPYGY GPGGVAGAAG KAGYPTGTGV GPQAAAAAAA KAAAKFGAGA AGVLPGVGGA
8	Elastin	

Figure 2h

Seq.IDNO	Name	Protein Sequence
9	Alpha-2 type IV collagen	<p>GVPGVPGAIP GIGGIAGVGT PAAAAAATAA AKAAKYGAAA GLVPGGPGFG PGVVGVPGAG VPGVGVPGAG</p> <p>IPVVPAGAGIP GAAVPGVVSP EAAAKAAAKA AKYGARPGVG VGGIPTVGVG AGFPFGVG VGGIPGVAGV</p> <p>PSVGGVPGVG GVPVGVISPE AQAAAAAKAA KYGVGTAAA AAKAAAKAAQ FALLNLGLV PGVGVAPGVG</p> <p>VAPGVGVAPG VGLAPGVGA PGVGVAPGVG VAPGIGPGV AAAAAKAAK AAKAQLRAAA GLGAGIPGLG</p> <p>VGVPVGLGV GAGVPLGVG AGVPGFVAV GALAAAKAAK YGAAVPGVLG GLGALGGVGI PGVVGAGPA</p> <p>AAAAAAKAAA KAAQFGLVGA AGLGGLGVG LGVPGVGG LGVPGVGG GIPAAAAA AKYGAAGLGG VLGAGAQFPL</p> <p>GGVAARPGFG LSPIFPGAC LGKACGRK</p> <p>MGRDQRAVAG PALRRWLLG TVTVGFLAQ VLAGVKKFDV PCGGRDCSGG CQCYPEKGR GQPGVGPQG</p> <p>YNGPPGLQGF PGLQKRKDK GERGAPVTV PKGDVGARGV SGFPAGDIP GHPGQGGPRG RPYDGCNGT</p> <p>QGDSGPGQPP GSEGTGPPG PQGPKQKGE PYALPKEERD RYRGEPGPG LVGFQGGPRG PGHVGMGPV</p> <p>GAPRPGPPG PPGKQOQN RGLGFYGVKG EKGDVQPGP NGIPSDTLHP IIAPTGVTFH PDQYKGEKGS</p> <p>EGEPGIRGIS LKGEETINGF PGLRGYPGLS GEKGSQKKG SRGLDGYQGP DGPRGPKGEA GDPGPPGLPA</p> <p>YSPHPSLAKG ARGDPGPPGA QGEPGQGE GDPGLPGPPG LSIGDQRR GLPGEMGPKG FIGDPGIPAL</p> <p>YGGPPGPDGK RPPGPPGGLP GPPGPDGFLF GLKAKGRAG FPGLPGSPA RPKGKAKGDA GECRCDE</p> <p>AIKGLPLPG PKGFAGINGE PGRKGDGDP QHGLPGFPG LKGVPCNIGA PGPKGAKGDS RTITTKGERG</p> <p>QPGVPGVPM KGDDGSPGRD GLDGFPGLPG PPDGIGKGP GDPGYPGIPG TKGTPGEMGP PGLGLPLKG</p> <p>QRGFPDAGL PGPPGFLGPP GPAGTPGQID CDTDVKRAG GDRQAIQPG CIAGPKGLPG LPGPPGPTGA</p> <p>KGLRGIPGFA GADGGPGPRG LPGDAGREF PGPPGFIGPR GSKGAVCLPG PDGSPGIGL PGPDGPPGER</p> <p>GLPGEVLGAQ PGPRGDAGVP GQPLKGLPG DRGPPGFRGS QGMPGMPGLK GQPLPGPSG QPGLYPPGL</p> <p>HGFPAGPQE GPLGLGIPG REGLPDGRD PGDTGAPGV GMKGLSGDRG DAGFTGEQGH PGSPGFKGID</p> <p>GMPGTPGLK DRGSPGMDGF QGMPGLKGRP GFPGSKGEAG FFGIPGLKGL AGEPGFKGSR GDPGPPGPPP</p>

Figure 2i

Seq.IDNO	Name	Protein Sequence
		<p>VILPGMKDIK GEKDEGPMG LKGYLGAKGI QGMPGIPGLS GIPGLPGRPG HIKGVKGDIG VPGIPGLPGF  PGVAGPPGIT GPPGFIGSRG DKGAPGRAGL YGEIGATGDF GDIGDTINLP GRPGLKGERG TTGIPGLKGF  FGEKGTEDI GPPGITVTG VQPPGLKGQ TGFPGLTGPP GSQELGRIG LPPGKGDDGW PGAPGLPGFP  GLRGIRGLHG LPTGKGFPGS PGSDIHGDPG FPGPPGERGD PGEANTLPGP VGVPGQKGDQ GAPGERGPPG  SPGLQGPPGI TPPSNISGAP GDKAPGIFG LKGYRGPPGP PGSAALPGSK GDTGNPGAPG TPGTKGWAGD  SGPQGRPGVF GLPGEKGPRG EQFMGNTGP TGAVGDRGPK GPKGDPGPPG APGTVGAPGI AGIPQKIAIQ  PGTVGPQRRR GPPGAPGEIG PQPPGEPGF RGAPGKAGPQ GRGVSAPVG FRGDEGPIGH QGPIQEGAP  GRPGSPCLPG MPGRSVSIGY LLVKHSQTDQ EPMCPVGMNK LWSGYSLLYF EGQEKAHNQD LGLAGSCLAR  FSTMPLYCN PGDVCIYASR NDKSYWLSTT APLPMPVAE DEIKPVISRC SVCEAPAIAI AVHSQDVSIP  HCPAGWRSIW IGYSFLMHTA AGDEGGQSL VSPGSCLEDF RATPFIECNG GRGTCHYYAN KYFWLTTP  EQSFQGPSA DTLKAGLIRT HISRCQVCMK NL</p>
10	p27	<p>MEASALTSSA VTSVAKVVRV ASGSAAVVLPL ARIATVVVIG VVAMAAVPMV LSAMGFTAAG IASSIAAKM  MSAAIANGG GVASGSLVGT LQSLGATGLS GLTKFILGSI GSAIAAVIAR FY</p>
11	Reticulocalbin	<p>MARGGRRL GLALGLLLAL VLAPRVLRK PTVRKERVVR PDSELGERPP EDNQSFQYDH EAFLGKEDSK  TFDQLTPDES KERLGKIVDR IDNDGDFVT TEELKTWIKR VQKRYIFDNV AKVWKDYDRD KDDKISWEEY  KQATYGYILG NPAEFHDSSD HHTFKKMLPR DERRFKAADL NGDLTATREE FTAFLHPEEF EHMKEIVVLE  TLEDIDKNGD GFVDQDEYIA DMFSHEENG EPDWVLSERE QFNEFRDLNK DGKLDKDEIR HWILPQDYDH  AQAEARHLVY ESDKNKDEKL TKEEILENWN MFVGSQATNY GEDLTKNHDE L</p>
12	Aldehyde dehydrogenase 6	<p>MATANGAVEN QPDGKPPAL PRPIRNLEVK FTKIFINNEW HESKSGKKFA TCNPSTREQI CEVEEGDKPD  VDKAVEAAQV AFQRGSPWRR LDALSRGRL HQLADLVERD RATLAALETM DTGKPFLLHAF FIDLEGCIPT</p>

Figure 2j

Seq.IDNO	Name	Protein Sequence
		LRYFAGWADK IQGKTIPTDD NVVCFTRHEP IGVCGAITPW NFPLLMLVMK LAPALCCGNT MVLKPAEQTP LTALYLGLSI KEAGFPPGVV NIVPGFGPTV GAAISSHPQI NKIAFTGSTV VGKLVKEAAS RSNLKRVTLE LGGKNPCIVC ADADLDLAVE CAHQGVFFNQ GQCCTAASRV FVEEQVYSEF VRRSVEYAKK RPVGDPFDVK TEQGPQIDQK QFDKILELIE SGKKEGAKLE CGGSAMEDKG LFIKPTVFSE VTDNMRIAKE EIFGPVQPIL KFKSIEEVV KANSTDYGLT AAVFTKNLDK ALKLASALES GTVWINCYNV LYAQAPFGGF KMSGNGRELG EYALAEYTEV KTVTIKLGDK NP
13	Gravin	MGAGSSTEQR SPEQPPEGSS TPAEPEPSGG GPSAEEAAPDT TADPAIAASD PATKLLQKNG QLSTINGVAE QDELSLQEGD LNGQKGALNG QGALNSQEEE EVIVTEVGQR DSEDVSRDS DKEMATKSAV VHDITDDGQE ENRNIEQIPS SESNLEELTQ PTESQANDIG FKKVFKFVG FKTIVKKDKTE KPDTVQLLTV KKDEGEAGAAG AGDHQDPSLG AGEAAKSESE PKQSTEEKPEE TLKREQSHAE ISPPAESGQA VEECKEEGEE KQEKESKSA ESPTSPVTSE TGSTFKKKFFT QGWAGWRKKT SFRKPKEDEV EASEKKKEQE PEKVDTEEDG KAEVASEKLT ASEQAHPQEP AESAHEPRLS AEYEKVELPS EEQVSGSQGP SEEKPAPLAT EVFDEKIEVH QEEVVAEVHV STVEERTEEQ KTEVEETAGS VPAEELVGMD AEPQEAEPK ELVKLKETCV SGEDPTQGAD LSPDEKVLKSK PPEGVVSEVE MLSSQERMKV QGSPLKKLFT STGLKKLSGK KQKGRGGGD EESGEHTQVP ADSPDSQEEQ KGESSASSPE EPEEITCLEK GLAEVQQDGE AEEGATSDGE KKREGVTPWA SFKKMVTPEK RVRPSESDDK EDELDKVKA TLSSTESTAS EMQEMKGSV EEPKPEEPKR KVDTSVSWEA LICVGSSKKR ARRRSSSDEE GGPKAMGGDH QKADEAGKDK ETGTDGILAG SQEHDPGQS SSPEQAGSPT EGEVSTWES FKRLVTPRKK SKSKLEEKSE DSIAGSGVEH STPDTEPGKE ESWVSIIKFI PGRKKRPDG KQEQAPVEDA GPTGANEDDS DVPVAVPLSE YDAVEREKME AQQAQKGAEQ PEQAATEVS KELSEQVHM MAAAVADGTR AATIIERSP SWISASVTEP LEQVEAEAL LTEEVLREV IAEEEPPTVT EPLPENREAR GDTVVSEAEI TPEAVTAAET AGPLGSEEGT EASAAETTE MVSAVSQLTD SPDTTBEATP VQVEGGVDP IEEQERRTQE VLQAVAEKVK

Figure 2k

Seq.IDNO	Name	Protein Sequence
14	Nidogen	<p> EESQLPGTGG PEDVLQPVQR AEAERPEEQ AEAERPEEQ VVLKVDQAQA KTEPFTQGV VQQTTPESFE  KAPQVTEIE SSELVTTTCA ETLGVKSQE MVMEQAIPPD SVETPTDSET DGSTPVADFD APGTTQKDEI  VEIHEENEVA SGTQSGGTEA EAVPAQKERP PAPSSFFVQE ETKEQSKMED TLEHTDKEVS VETVSILSKT  EGTQEAQOYA DEKTKDVPFF EGLEGSIDTG ITVSREKVT E VALKGEETEE AECKKDDALE LQSHAKSPPS  PVEREMVQV EREKTEAAPT HVNEEKLEHE TAVTVSEEV KQLLQTVNVP IIDGAKEVSS LEGSPPPCLG  QEEAVCTKI QVSSEASFTL TAAAEKVKL GETANILETG ETLAPAGAH VLEEKSEKN EDFAAHPGED  AVPTGPDCA KSTPVIVSAT TKKGLSSDLE GEKTTSLKWK SDEVDEQVAC QEVKVSVAIE DLEPENGILE  LETKSSKLQ NIIQTAVDQF VRTEETATEM LTSELQTOAH VIKADSQDAG QETEKEGEEP QASAQDETPI  TSAKESEST AVQAHS DIS KDMSEASEKT MTVEVEGSTV NDQQLLEEVVL PSEEEGGGAG TKSVPEDDGH  ALLAERIEKS LVEPKEDKG DDVDDPENQN SALADTDASG GLTKESPD TN GPKQKEKEDA QEVELQEGKV  HSESDKAITP QAQEELQKQE RESAKSELTE S </p>
		<p> MLASSRIRA AWTRALLLPL LLAGPVGCLS RQELFPFGPG QGDLELEDGD DFVSPAELS GALRFYDRSD  IDAVVVTNG IATSEPPAK ESHPGLPPT FGAVAPFLAD LDTTDGLKV YYREDLSPSI TQRAAECVHR  GFPEISFQPS SAVVVTWESV APYQGPSRDP DQKGRNTFQ AVLASSDSSS YAIFLYPEDG LQFHTTFSKK  ENNVPAVVA FSQGSVGFLW KSNAYNIFA NDRESIENLA KSSNSGQGV WVFEIGSPAT TNGVVPADVI  LGTEDGAED DEDEDYDLAT TRLGLEDVGT TPFSYKALRR GGADTYSVPS VLSPRRAATE RPLGPPTERT  RSFQLAVETF HQHPQVIDV DEVEETGVVF SYNTDSRQTC ANNRHQCSVH AECDYATGF CCSCVAGYTG  NGRQCVAEGS PORVNGKVKG RIFVGSSQVP IVFENTDLHS YVVMNHGRSY TAISTIPETV GYSLPLAPV  GGIGWMFAV EQDGFKNGFS ITGGEFTRQA EVTFVGHGPN LVIKQRFSGI DEHGLTIDT ELEGRVQPQIP </p>

Figure 21

Seq.IDNO	Name	Protein Sequence
15	Phospholipase Epsilon	<p>FGSSVHIIEPY TELYHYSTSV ITSSSTREYTVTEPERDGAS PSRIITYQWR QTITFQECVH DDSRPALPST          QQLSVDSVFEV LYNQEEKILR YAFNSIGPV REGSPDALQN PCYIGTHGCD TNAACRPGPR TQFTCECSIG          FRGDGRTCYD IDECSEQPSV CGSHTICNNH PGTFRCCEVE GYQFSDEGTC VAVVDQRPIN YCETGLHNCD          IPQRAQCIYT GGSSYTCSCSCL PGFSGDQAC QDVDECQPSR CHPDAFCYNT PGSFTCQCKP GYQGDGFRVCV          PGEVEKTRCQ HEREHILGAA GATDPQRPIP PGLFVPECEA HGHYAPTQCH GSTGYCWCVD RDGREVEGTR          TRPGMTPPCL STVAPPIHQG PAVPTAVIPL PPGTHLLFAQ TCKIERLPLE GNTMRKTEAK AFLHVPKAVI          IGLAFDCVDK MVYWTIDITEP SIGRASLHGG EPTTIIRQDL GSPEGIAVDH LGRNIFWTDN NLDRIEVAKL          DGTQRRVLFE TDLVNPRGIV TDSVRGNLYW TDWNRDNPKI ETSYMDGTNR RILVQDDDLGL PNGLHFDAPS          SOLCWVDAGT NRAECLNPSQ PSRRKALEGL QYPFAVTSYG KNLYFTDWMK NSVVALDLAI SKETDAFQPH          KQTRLGITTT ALSQCPOGHN YCSVNGGCT HLCLATPGSR TCRCPDNTLG VDCIERK</p> <p>MPSEKKISSA NDCISFMQAG CELKKVRPNS RIYNRFFTLTDLQALRWEPSKKDLEKAKL DISAIKEIRL          GKNTETFTNN GLADQICEDC AFSILHGENY ESLDLVANSADVANIWVSGLYLVRSRQKPLDFMEGNQNT          PRFMWLKTVF EAADVDGNGI MLEDTSVELI KQLNPTLKEAKIRLKFKEIQ KSKEKLTRV TEEEFCEAFC          ELCTRPEVYF LLVQISKKE YLDANDMLF LEAEQGVTHI TEDICLDIIR RYELSEEGRQ KGFLAIDGFT          QYLLSSECDI FDPEQKKVAQ DMTQPLSHYY INASHNTYLI EDQFRGPADI NGYIRALKMG CRSVELDVSD          GSDNEPILCN RNNMTTHVSF RSVIEVINKF AFVASEYPLI LCLGNHCSLP QQKVMAQQMK KVFGNKLYTE          APLPSESILP SPEKLKRMII VKGKKLPSPD DVLEGEVTE DEEAQMSRRM SVDYNGEQKQ IRLCRELSDL          VSICKSVQYR DFELSMKSN YWEMCSFSET EASRIANEYP EDFVYNKKF LSRIYPSAMR IDSSNLPQD          FWNCGCQIVA MNFQTPGPM DLHTGWFLQN GGCGYVLRPS IMRDEVSYFS ANTKGILPGV SPLALHIKII          SGQNFPPKPG ACAKGDVIDP YVCIEIHGIP ADCSEQRTKT VQONSNDNPIF DETFEFQVNL PELAMIRFVV          LDDDYIGDEF IGQYTIPIPEC LQPGYRHHVPL RSFVGDIIMEH VTLFVHIAIT NRSGGKKAQK RSLSVRMGKK</p>

Figure 2m

Seq.IDNO	Name	Protein Sequence
		VREYTMRLRN I GLKTIDDDIFK IAVHPLREAI DMRENMQNAI VSIKELCGLP PIASLKQCCLL TLSSRLITSD NTPSVSLVMK DSFPYLEPLG AIPDVQKKML TAYDLMIQES RFLIEMADTV QEKIVQCQKA GMEFHEELHN LGAKEGLKGR KLNKATESFA WNITVLKGQG DLLKNAKNEA IENMKQIQLA CLSCGLSKAP SSSAEAKSKR SLEAIEEKES SEENGKL